Appendix D:
Latitude and Longitude Calculations Worksheet

Latitude and Longitude Calculation Worksheet (7.5' quads)
Using an Engineer's Scale (1/50)

Site Name Halaco Engineering, Inc. **CERCLIS #** CAD009688052

AKA Halaco

Address 6200 Perkins Road

City Oxnard **State** CA **ZIP** 93033

Site Reference Point center

USGS Quad Name Oxnard 7.5 Minute **Scale** 1:24000

Township _____ **Range** _____ **Section** ____ ____ ¼ ____ ¼ ____ ¼

Map Datum [ ] **1927** [x] **1983** **(Check one)** **Meridian** _____

Map coordinates at southeast corner of 7.5' quadrangle (attach photocopy)

Latitude ___ ° ___ ' ___ "N **Longitude** ___ ° ___ ' ___ "W

Map coordinates at southeast corner of 2.5' grid cell

Latitude ___ ° ___ ' ___ "N **Longitude** ___ ° ___ ' ___ "W

Calculations

LATITUDE(x)

A) Number of ruler graduations between 2.5' (150") grid lines ___ **(a)**

B) Number of ruler graduations between south grid line and the site reference point ___ **(b)**

C) Therefore, a/150 = b/x, where **x= Latitude in decimal seconds, north of the south grid line**

Expressed as minutes and seconds (1' = 60") = ___ ° ___ ' ___ "N

Add to grid cell latitude = ___ ° ___ ' ___ "N + ___ ° ___ ' ___ "N

Site latitude = 34 ° 08 ' 20 "N

LONGITUDE(y)

A) Number of ruler graduations between 2.5' (150") grid lines ___ **(a)**

B) Number of ruler graduations between south grid line and the site reference point ___ **(b)**

C) Therefore, a/150 = b/x, where **x= Longitude in decimal seconds, west of the east grid line**

Expressed as minutes and seconds (1" = 60") = ___ ° ___ ' ___ "W

Add to grid cell longitude = ___ ° ___ ' ___ "N + ___ ° ___ ' ___ "N

Site longitude = 119 ° 10 ' 55 "W